

FIG. 1A

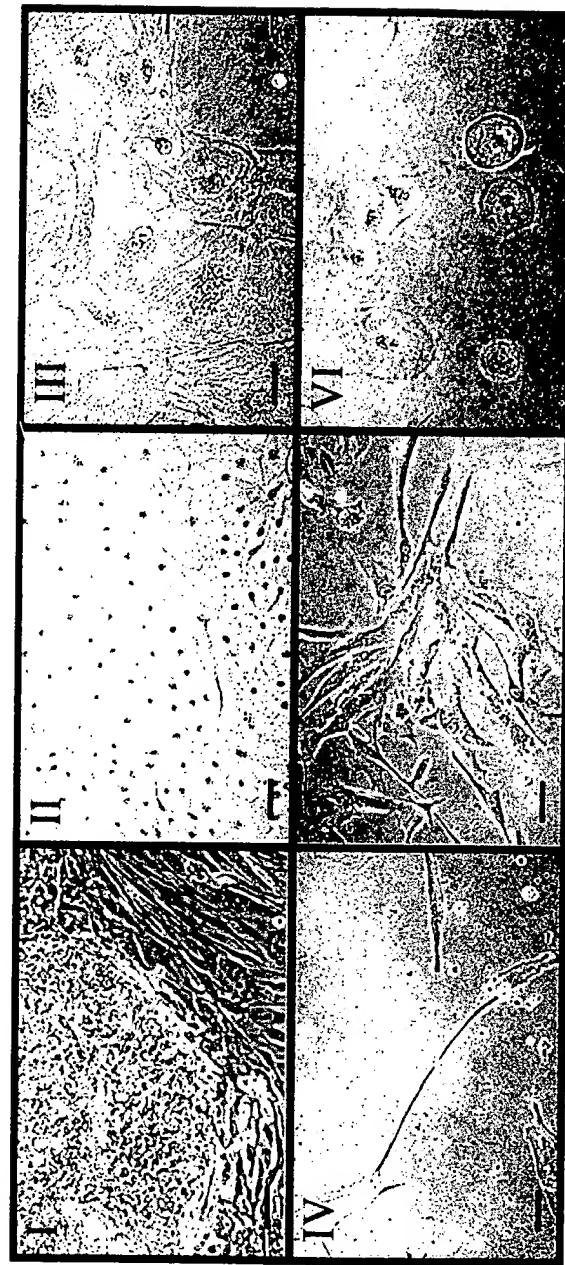


FIG. 1B

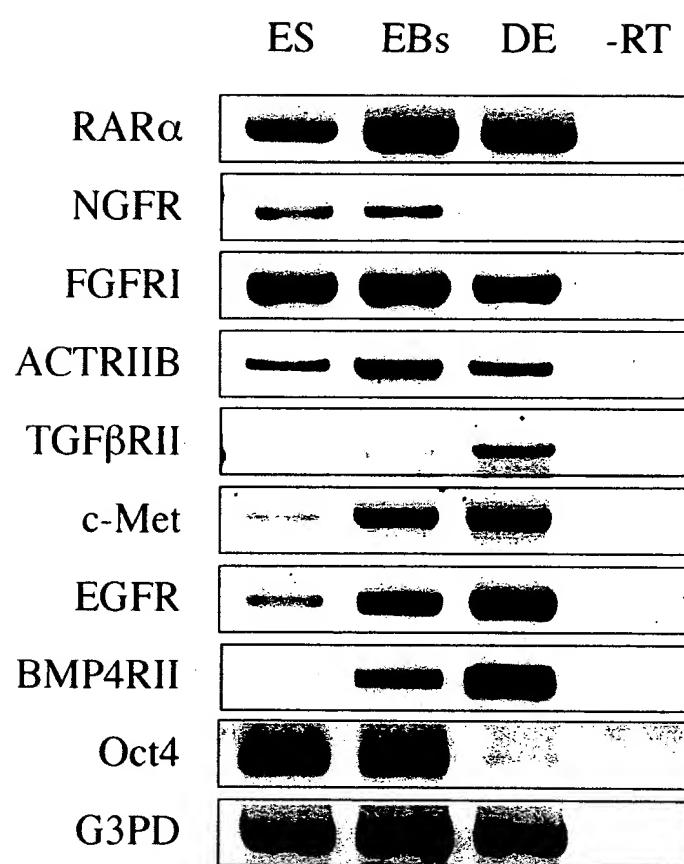


FIG. 2

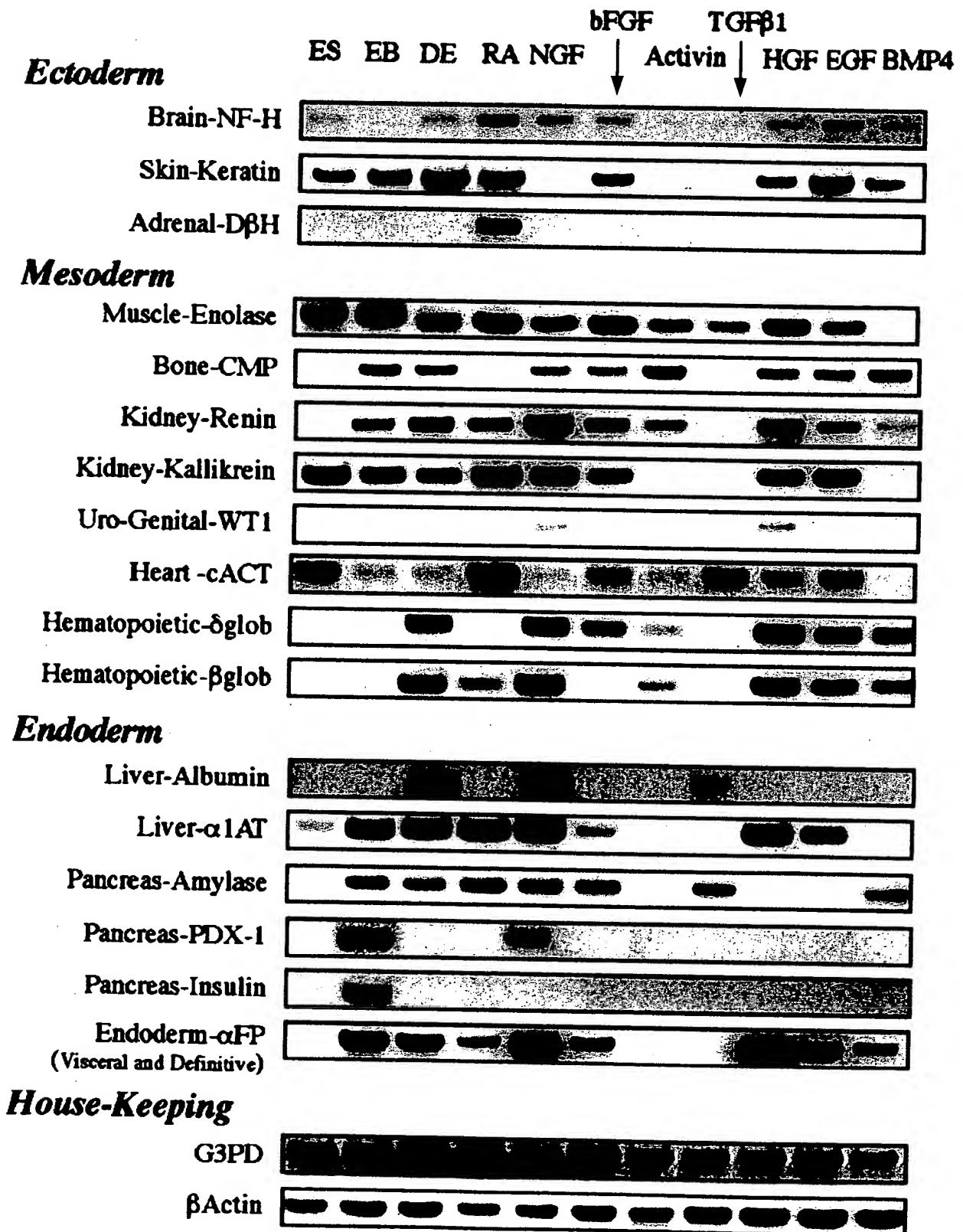


FIG. 3A

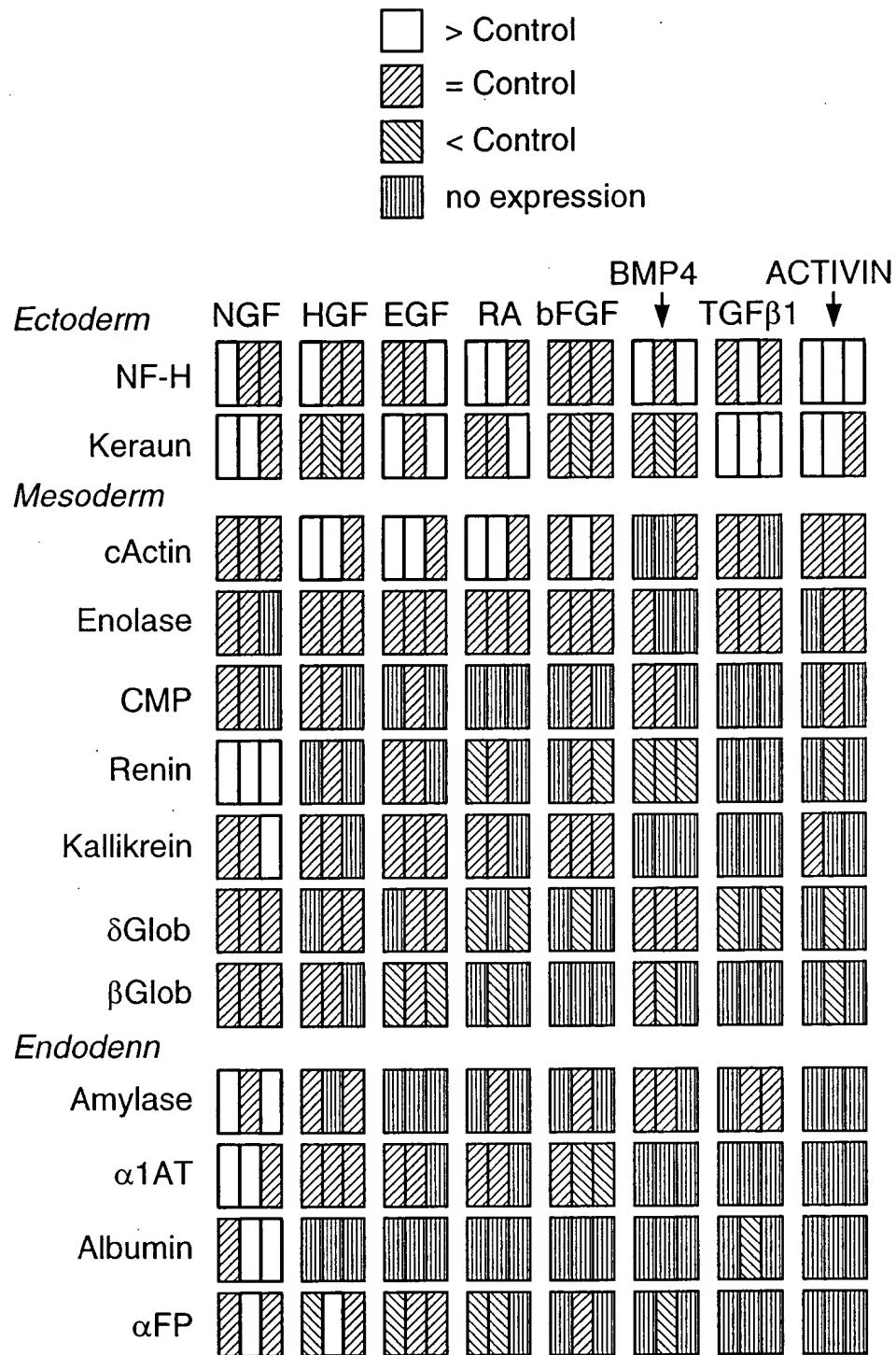
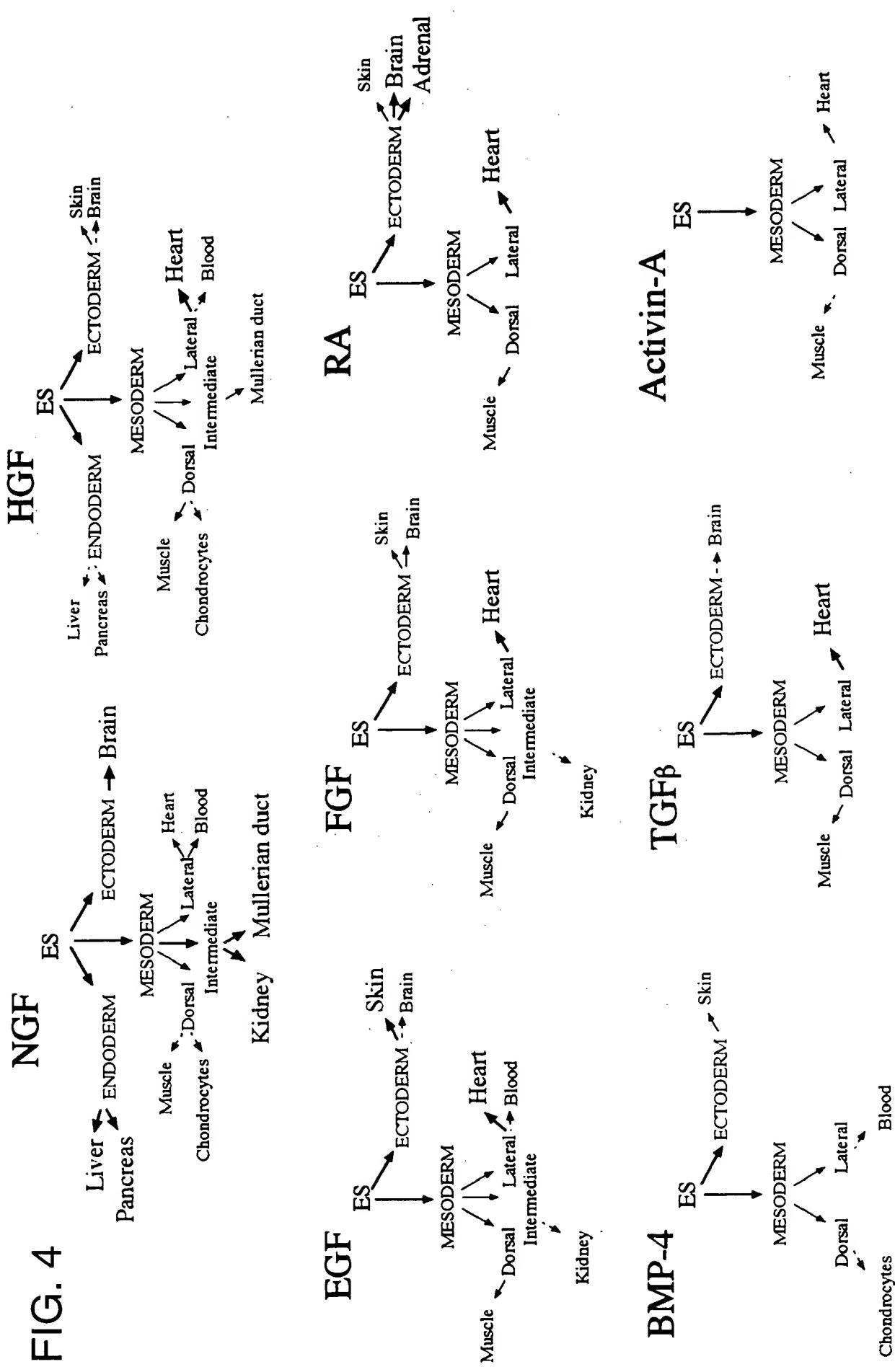


FIG. 3B

**FIG. 4**



Gene	Expected Product	5' Primer	3' Primer
$\alpha$ -feto protein ( $\alpha$ FP)	680bp	AGAACCTGTCACAAGCTGTG	CTGAGGGATGTC
$\alpha$ 1 anti-trypsin ( $\alpha$ 1AT)	360bp	AGACCCCTTGAAGTCAGGACACCG	CCATTGCTGAAGACCTTAGTGATGC
Activin Receptor type IIB (ACTRIIB)	550bp	ACACGGGGAGTGCATCTACTACAAACG	TTCATGAGCTGGCCATTCCAGACAC
Albumin	450bp	CCTTGGCACAATGAAGTGGTAACC	and CAGCAGTCAGGCCATTCAACCTAGG
Amylase	490bp	GCTGGGCTCAGTATTCCCCAAATAC	GACGACAAATCTGACCTGAGTAGC
B-Actin	400bp	TGGCACACACCCCTACAATGAGC	GCACAGCTTCTAAATGTCACGC
$\beta$ -Globin ( $\beta$ -Glob)	410bp	ACCTGACTCCTGAGGAGAAGTCTGC	TAGCCACACCAGCCACCACTTTCTG
Bone Morphogenic Protein 4 Receptor type II (BMP4RII)	800bp	TCTGCAGCTAGGTCTCATCAGC	TATACTGCTCCATATGACCTCTGGC
Cardiac Actin (cACT)	630bp	TCTATGAGGGCTACGGCTTTG	CCTGACTTGGAAAGGTAGATGG
Cartilage Matrix Protein (OMP)	620bp	ATGACTGTGAGCAGGTGATCAG	CTGGTTGATGGTCTTGAAGTCAGGCC
$\delta$ -Globin ( $\delta$ -Glob)	430bp	ACCATGGTGCATCTGACTCCTGAGG	ACTTGTGAGGCCAAGGCATTAGGCCAC
Dopamine $\beta$ Hydroxylase (D $\beta$ H)	440bp	CACGTACTGGTGTACATTAAGGAGC	ATGGCCATCAGTGGCTGTACACCC
Enolase	490bp	TGACTTCAAGTGCCTGATGATCCC	TGCGTCCAGCAAAGATTGCCATTGTC
Epidermal Growth Factor Receptor type (EGFR)	300bp	CAGTCGTCAAGCCTGAACATAACATOC	AGGTTGCACCTGTCCACGCATTCCC
Fibroblast Growth Factor Receptor type I (FGFR)	410bp	AGCATCATATAATGGACTCTGTGGTGC	AGTCCGATAGAGTTACCGCCAAGC
Follicular Stimulating Hormone (FSH)	320bp	GTGAGGCTGACCAACATCACCATTC	TTTCACCAAGGAGGCAGTAGCTGGG
Glucagon	370bp	CTCAGTGTGATCCTGATCAGATGAACG	AGTCCCCTGGGGCAAGATTATCAAG
Glyceraldehyde 3-phosphate dehydrogenase (G3PD)	890bp	TGAAGGTGGAGTCACGGATTGGT	CATGTTGGCCATGAGGTCCACCCAC
Hepatocyte Growth Factor Receptor (c-Met)	440bp	AGAAATTCATCAGGGCTGTGAAGGGCG	TTCCCTCCGATCGGCACACATTGTCCG

FIG. 5A	FIG. 5C
FIG. 5B	FIG. 5D

FIG. 5A

FIG. 5

FIG. 5B

Insulin	CTGCATCAGAAGAGGCCATCAAGC GTTCATGTCAGTGAGAGCTCCAC AGGAATCATCTCAGGAGGAAGGGC GATTCACTCAAGCATCAGTGGCTCC TCCAACGTGTTCTCCATGTTCGAAC TGTTCTCTGCCAGGACAAGCAGAAC	GGCTTTATTCCATCTCGGGTGC TCACATAAGACAGCAGCTCTGACGGC AAAGCACAGATCTGGGGAGGCTAC: CCAATCGGACTAATTCAAGGTGTGCC CTTGTAGTCCAAAGTTGCCAGTCACG TCTTGAAGGCTATGTAGGCCACAAGG
Kallikrein	420bp	TGAACACAGACGGCTATGCGCTCAG
Keratin	480bp	CGPAGGCTGGAGAAGGAGAAGCTG
Lipase	780bp	GGCTAAAGTTATGATTGTCATGTTGGC
Myosin light polypeptide2 (myosin)	400bp	GGATGAAGTCTTACCAAAAGCTCACGGC
Nerve Growth Factor Receptor (NGFR)	400bp	AGAGTGAGGAGATCACTACTGGCAG
Neurofilament Heavy Chain (NFH)	140bp	AGTCGTTCTTGACACTGGTTCGTCC
Octamer Binding Protein 4 (Oct4)	290bp	AGCAGCAGTTCTGAAGAGATAGTGCC
Parathyroid Hormone (PTH)	230bp	TCCAGCTCATCTAGATGAGGAGCTC
PDX-1	820bp	TAGTCACTGACACAACGGTGCAGTC
Phosphoprotein enriched in astrocytes(PEA-15)	590bp	GTCCCCATGGCCTAAATGCCTCTCAG
Renin	500bp	ACAGTGCTGACTCCATGAGCT
Retinoic Acid Receptor type alpha (RAR)	460bp	CTGTAGGGCGTCAGCAGCAAAG
Surfactant Transforming Growth Factor Receptor type II (TGFRII)	530bp	
WT1	450bp	

Gene	5' Primer	3' Primer
$\alpha$ -feto protein ( $\alpha$ FP)	SEQ ID NO: 4	SEQ ID NO: 5
$\alpha$ 1 anti-trypsin ( $\alpha$ 1AT)	SEQ ID NO: 6	SEQ ID NO: 7
Activin Receptor type IIB (ACTRIIB)	SEQ ID NO: 8	SEQ ID NO: 9
Albumin	SEQ ID NO: 10	SEQ ID NO: 11
Amylase	SEQ ID NO: 12	SEQ ID NO: 13
B-Actin	SEQ ID NO: 14	SEQ ID NO: 15
$\beta$ -Globin ( $\beta$ -Glob)	SEQ ID NO: 16	SEQ ID NO: 17
Bone Morphogenic Protein 4 Receptor type II (BMP4RII)	SEQ ID NO: 18	SEQ ID NO: 19
Cardiac Actin (cACT)	SEQ ID NO: 20	SEQ ID NO: 21
Cartilage Matrix Protein (OMP)	SEQ ID NO: 22	SEQ ID NO: 23
$\delta$ -Globin ( $\delta$ -Glob)	SEQ ID NO: 24	SEQ ID NO: 25
Dopamine $\beta$ Hydroxylase (D $\beta$ H)	SEQ ID NO: 26	SEQ ID NO: 27
Enolase	SEQ ID NO: 28	SEQ ID NO: 29
Epidermal Growth Factor Receptor type (EGFR)	SEQ ID NO: 30	SEQ ID NO: 31
Fibroblast Growth Factor Receptor type I (FGFRI)	SEQ ID NO: 32	SEQ ID NO: 33
Follicular Stimulating Hormone (FSH)	SEQ ID NO: 34	SEQ ID NO: 35
Glucagon	SEQ ID NO: 36	SEQ ID NO: 37
Glyceraldehyde 3-phosphate dehydrogenase (G3PD)	SEQ ID NO: 38	SEQ ID NO: 39
Hepatocyte Growth Factor Receptor (c-Met)	SEQ ID NO: 40	SEQ ID NO: 41

FIG. 5C

Insulin	SEQ ID NO: 42	SEQ ID NO: 43
Kalikrein	SEQ ID NO: 44	SEQ ID NO: 45
Keratin	SEQ ID NO: 46	SEQ ID NO: 47
Lipase	SEQ ID NO: 48	SEQ ID NO: 49
Myosin light polypeptide2 (myosin)	SEQ ID NO: 50	SEQ ID NO: 51
Nerve Growth Factor Receptor (NGFR)	SEQ ID NO: 52	SEQ ID NO: 53
Neurofilament Heavy Chain (NFH)	SEQ ID NO: 54	SEQ ID NO: 55
Octamer Binding Protein 4 (Oct4)	SEQ ID NO: 56	SEQ ID NO: 57
Parathyroid Hormone (PTH)	SEQ ID NO: 58	SEQ ID NO: 59
PDX-1	SEQ ID NO: 60	SEQ ID NO: 61
Phosphoprotein enriched in astrocytes(PEA-15)	SEQ ID NO: 62	SEQ ID NO: 63
Renin	SEQ ID NO: 64	SEQ ID NO: 65
Retinoic Acid Receptor type alpha (RAR)	SEQ ID NO: 66	SEQ ID NO: 67
Surfactant	SEQ ID NO: 68	SEQ ID NO: 69
Transforming Growth Factor Receptor type II (TGFRII)	SEQ ID NO: 70	SEQ ID NO: 71
WT1	SEQ ID NO: 72	SEQ ID NO: 73

FIG. 5D

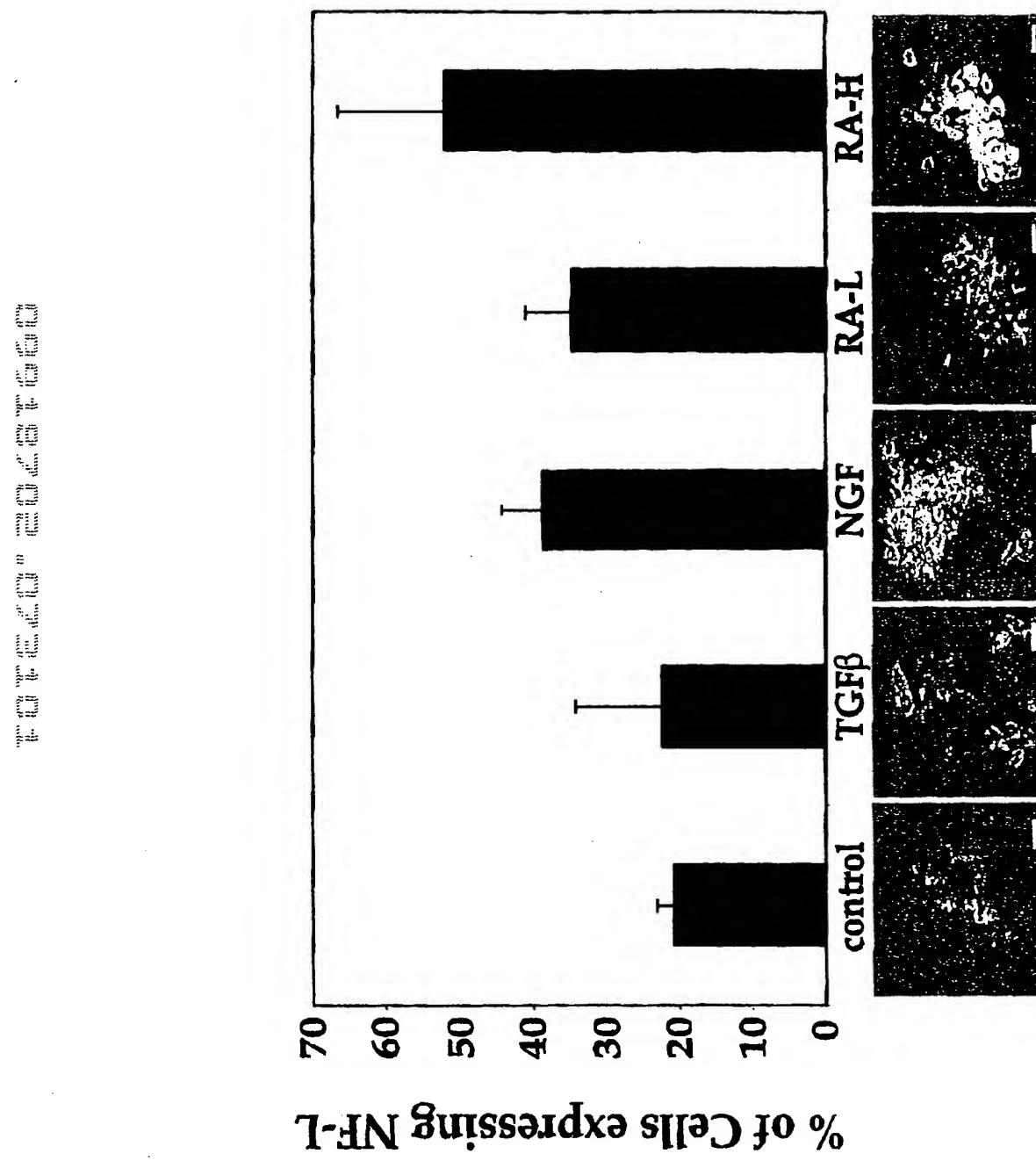


FIG. 6

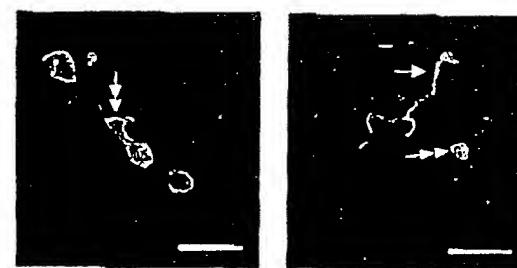


FIG. 7A

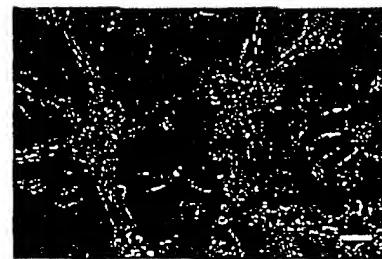


FIG. 7B

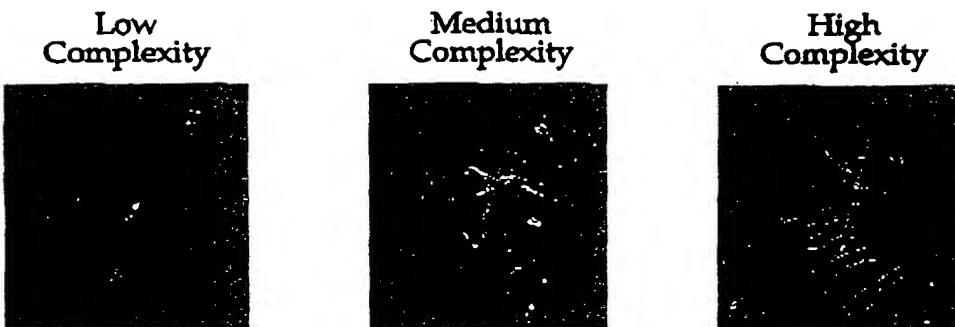


FIG. 7C

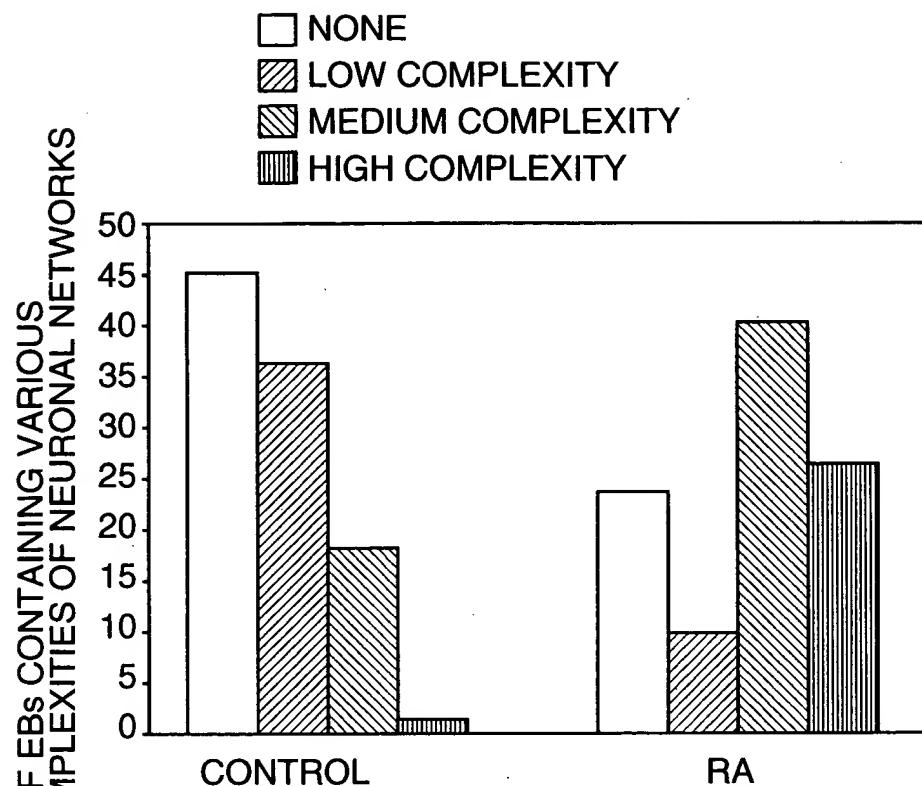


FIG. 7D

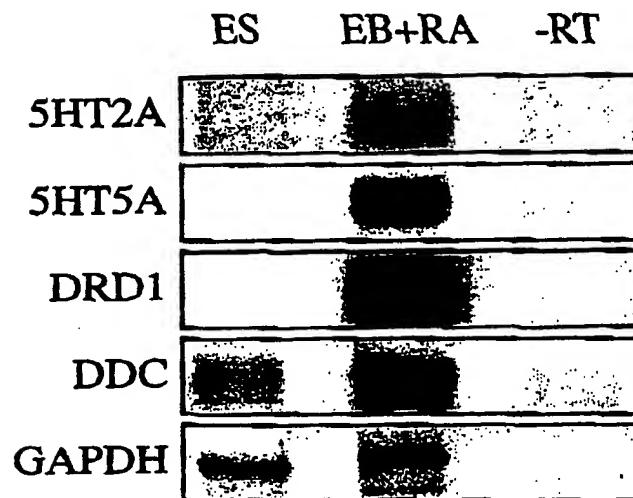


FIG. 8